

INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC718-2-US	Serial No.: 10/524,234
First Named Inventor: Blattmann, Beat O. et al.	Examiner: Rebecca E. Prouty
Filing Date: August 11, 2003 (Int'l)	Art Unit: 1652
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US PATENT DOCUMENTS

Examiner's Initials	Document Numbering	Document Number	Publication or Filing Date	Name of Applicant or Patentee	Class	Sub-Class	Filing Date
	A1	4,179,337	12-18-79	Davis et al.			
	A2	4,301,144	11-17-81	Iwashita et al.			
	A3	4,496,689	01-29-85	Mitra			
	A4	4,640,835	02-03-87	Shimizu et al.			
	A5	4,670,417	06-02-87	Iwasaki et al.			
	A6	4,791,192	12-13-88	Nakagawa et al.			
	A7	5,034,506	07-23-91	Summerton et al.			
	A8	5,235,033	08-10-93	Summerton et al.			
	A9	5,510,471	04-23-96	Lebrun et al.			
	A10	5,571,706	11-05-96	Baker et al.			
	A11	5,644,048	07-01-97	Yau			
	A12	5,750,871	05-12-98	Moloney et al.			
	A13	5,773,269	06-30-98	Somers et al.			
	A14	5,876,997	03-02-99	Kretz			
	A15	6,039,942	03-21-00	Lassen et al.			
	A16	6,066,725	05-23-00	DeBoer et al.			
	A17	6,110,719	08-29-00	Kretz			
	A18	6,139,902	10-31-00	Kondo et al.			
	A19	6,190,897 B1	02-20-01	Kretz			
	A20	6,221,644 B1	04-24-01	Berka et al.			
	A21	6,261,592 B1	07-17-01	Nagashima et al.			
	A22	6,855,365	09-26-02	Short et al.			

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Numbering	Document Number	Publication or Filing Date	Name of Applicant or Patentee	Class	Sub-Class	Translation Yes/No
	B1	*EP 0 684 313	29.11.95				
	B2	*WO 87/05330	11.09.87				

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	B3	*WO 01/09333	29.11.01				
	B4	*WO 01/36607	25.05.01				
	B5	*WO 02/48332 A2	20.06.02				

OTHER DOCUMENTS

Examiner's Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	C1	*Al-Batshan, H.A. et al., "Duodenal calcium uptake, femur ash, and eggshell quality decline with age and increase following molt," <i>Poultry Science</i> , 73(10):1590-6, 1994.
	C2	*Altschul, S.F. et al., "Basic local alignment search tool," <i>J. Mol. Biol.</i> , 215(3): 403-410, 1990.
	C3	*Altschul, S.F. et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <i>Nucleic Acids Res.</i> , 25(17):3389-3402, 1997.
	C4	*Aplin, J.D. et al., "Preparation, Properties, and Applications of Carbohydrate Conjugates of Proteins and Lipids," <i>Critical Reviews in Biochemistry</i> , 10(4): 259-306, 1981.
	C5	*Beaucage, S.L. et al., "Deoxynucleoside phosphoramidites-A new class of key intermediates for deoxypolynucleotide synthesis," <i>Tetrahedron Lett.</i> , 22(20):1859-1862, 1981.
	C6	*Benton, W.D. et al., "Screening λ gt recombinant clones by hybridization to single plaques in situ," <i>Science</i> , 196(4286):180-182, 1977.
	C7	*Birnboim, H.C. et al. "A rapid alkaline extraction procedure for screening recombinant plasmid DNA," <i>Nucl. Acids Res.</i> , 7(6): 1513-1523, November 24, 1979.
	C8	*Bolli, M. et al., "α-Bicyclo-DNA: Synthesis, Characterization, and Pairing Properties of α-DNA-Analogues with Restricted Conformational Flexibility in the Sugar-Phosphate Backbone," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 100-117. Washington, D.C.: American Chemical Society, 1994.
	C9	*Botstein, D. et al., "Strategies and applications of in vitro mutagenesis," <i>Science</i> , 229(4719): 1193-1201, 1985.
	C10	*Brill, W.K.D. et al., "Synthesis of oligodeoxynucleoside phosphorodithioates via thioamidites," <i>J. Am. Chem. Soc.</i> , 111(6): 2321-2322, 1989.
	C11	*Brisson, N. et al., "Plant Virus Vectors: Cauliflower Mosaic Virus," In <i>Methods for Plant Molecular Biology</i> , edited by A. Weissbach et al., pp. 437-463. New York: Academic Press, 1988.
	C12	*Brisson, N. et al., "Expression of a bacterial gene in plants by using a viral vector," <i>Nature</i> , 310(5977): 511-514, 1984.
	C13	*Broglie, R. et al., "Light-regulated expression of a pea ribulose-1,5-bisphosphate carboxylase small subunit gene in transformed plant cells," <i>Science</i> , 224(4651): 838-43, 1984.

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	C14	*Cadwell, R.C. et al., "Randomization of genes by PCR mutagenesis," <i>PCR Methods Appl.</i> , 2(1): 28-33, 1992.
	C15	*Carlsson, C. et al., "Screening for genetic mutations," <i>Nature</i> , 380(6571):207, 1996.
	C16	*Clunies, M. et al., "Effect of dietary calcium level on plasma proteins and calcium flux occurring during a 24 h ovulatory cycle," <i>Can. J. Anim. Sci.</i> , 75(3): 439-444, 1995.
	C17	*Committee on Food Chemicals Codex, "Phytase Activity," In <i>Food Chemicals Codex</i> , pp. 808-810, Washington, D.C., National Academy Press, 1996.
	C18	*Coruzzi, G. et al., "Tissue-specific and light-regulated expression of a pea nuclear gene encoding the small subunit, of ribulose-1,5-bisphosphate carboxylase," <i>The EMBO Journal</i> , 3(8): 1671-1679, 1984.
	C19	*Creighton, T.E., <i>Proteins: Structures and Molecular Principles</i> , pp. 79-86, San Francisco, W.H. Freeman & Co., 1983.
	C20	*Cromwell, G.L. et al., "Phosphorus-a key essential nutrient, yet a possible major pollutant – its central role in animal nutrition," In <i>Biotechnology in the feed industry</i> , edited by T.P. Lyons, pp. 133-145, Nicholasville, KY: Alltech Tehcnical, 1991.
	C21	*Cromwell, G.L. et al., "Efficacy of phytase in improving the bioavailability of phosphorus in soybean meal and corn-soybean meal diets for pigs," <i>J. Anim. Sci.</i> , 71(7): 1831-1840, 1993.
	C22	*Damron, B.L. et al., "Calcium supplementation of hen drinking water," <i>Poult. Sci.</i> , 74(5): 784-787, 1995.
	C23	*Dassa, J. et al., "The complete nucleotide sequence of the Escherichia coli gene appA reveals significant homology between pH 2.5 acid phosphatase and glucose-1-phosphatase," <i>J. Bacteriol.</i> , 172(9): 5497-5500, 1990.
	C24	*Dayhoff, M.O. et al. "A Model of Evolutionary Change in Proteins," In <i>Atlas of Protein Sequence and Structure</i> , edited by M.O. Dayhoff, 5 supp. 3, pp. 345-352, Silver Spring, MD, National Biomedical Research Foundation, 1978.
	C25	*Dempcy, R.O. et al., "Synthesis of a thymidyl pentamer of deoxyribonucleic guanine and binding studies with DNA homopolynucleotides," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92(13): 6097-6101, 1995.
	C26	*Eckert, K.A. et al., "DNA polymerase fidelity and the polymerase chain reaction," <i>PCR Methods Appl.</i> , 1(1): 17-24, 1991.
	C27	*Edge, A.S.B. et al., "Deglycosylation of glycoproteins by trifluoromethanesulfonic acid," <i>Analytical Biochemistry</i> 118(1): 131-137, 1981.
	C28	*Egholm, M. et al. "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules," <i>Nature</i> , 365(6446): 566-568, 1993.
	C29	*Egholm, M. et al., "Peptide nucleic acids (PNA). Oligonucleotide analogues with an achiral peptide backbone," <i>Journal of the American Chemical Society</i> , 114(5): 1895-1897, 1992.
	C30	*Ehrlich, K.C. et al., "Identification and cloning of a second phytase gene (phyB) from <i>Aspergillus niger</i> (ficcum)," <i>Biochemical and Biophysical Research Communications</i> , 195(1): 53-57, 1993.

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	C31	*Elander, R.P. "Microbial screening, selection and strain improvement," In <i>Basic Biotechnology</i> , edited by J. Bu'Lock et al., pp. 217-251, New York: Academic Press, 1987.
	C32	*Evan, G.I. et al., "Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product," <i>Molecular and Cellular Biology</i> , 5(12): 3610-3616, 1985.
	C33	*Field, J. et al., "Purification of a RAS-responsive adenylyl cyclase complex from <i>Saccharomyces cerevisiae</i> by use of an epitope addition method," <i>Molecular and Cellular Biology</i> , 8(5):2159-2165, 1988.
	C34	*Finkelstein, D.B., "Transformation," In <i>Biotechnology of Filamentous Fungi: Technology and Products</i> , edited by D.B. Finkelstein et al., pp. 113-156, Boston, MA: Butterworth-Heinemann, 1992.
	C35	*Fiske, C.H. et al., "The Colorimetric Determination of Phosphorus," <i>J. Biol. Chem.</i> , 66: 375-400, 1925.
	C36	*Fraser, C.M. et al., "Fish," In <i>The Merck veterinary manual: a handbook of diagnosis, therapy, and disease prevention and control for the veterinarian</i> , pp. 1268-1269, Rahway, N.J.: Merck & Co., 1991.
	C37	*Fromant, M. et al., "Direct random mutagenesis of gene-sized DNA fragments using polymerase chain reaction," <i>Anal. Biochem.</i> , 224(1): 347-353, 1995.
	C38	*Fungaro, M.H.P. et al., "Transformation of <i>Aspergillus nidulans</i> by microprojectile bombardment on intact conidia," <i>FEMS Microbiology Letters</i> , 125(2-3): 293-297, 1995.
	C39	*Gao, X. et al., "Unusual conformation of a 3'-thioformacetal linkage in a DNA duplex," <i>J. Biomol. NMR</i> , 4(1): 17-34, 1994.
	C40	*Gelvin, S.B. et al., "vir genes influence conjugal transfer of the Ti plasmid of <i>Agrobacterium tumefaciens</i> ," <i>J. Bacteriol.</i> , 172(3): 1600-1608, 1990.
	C41	*Gish, W. et al., "Identification of protein coding regions by database similarity search," <i>Nat. Genet.</i> , 3(3): 266-272, 1993.
	C42	*Golovan, S. et al., "Characterization and overproduction of the <i>Escherichia coli</i> appA encoded bifunctional enzyme that exhibits both phytase and acid phosphatase activities," <i>Can. J. Microbiol.</i> , 46(1): 59-71, 2000.
	C43	*Greiner, R. et al., "Purification and characterization of two phytases from <i>Escherichia coli</i> ," <i>Arch. Biochem. Biophys.</i> , 303(1):107-113, 1993.
	C44	*de Groot, M.J.A. et al., "Agrobacterium tumefaciens-mediated transformation of filamentous fungi," <i>Nat. Biotech.</i> 16(9): 839-842, 1998.
	C45	*Grunstein, M. et al., "Colony Hybridization: A Method for the Isolation of Cloned DNAs that Contain a Specific Gene," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 72(10): 3961-3965, 1975.
	C46	*Harayama, S., "Artificial evolution by DNA shuffling," <i>Trends Biotechnol.</i> , 16(2): 76-82, 1998.
	C47	*van Hartingsveldt, W. et al., "Cloning, characterization and overexpression of the phytase-encoding gene (phyA) of <i>Aspergillus niger</i> ," <i>Gene</i> , 127(1): 87-94, 1993.

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	C48	*Henikoff, S. et al., "Amino Acid Substitution Matrices from Protein Blocks," <i>Proc. Natl. Acad. Sci. USA</i> , 89: 10915-10919, 1992.
	C49	*Henke, E. et al., "Directed Evolution of an Esterase from <i>Pseudomonas fluorescens</i> . Random Mutagenesis by Error-Prone PCR or a Mutator Strain and Identification of Mutants Showing Enhanced Enantioselectivity by a Resorufin-Based Fluorescence Assay," <i>Biological Chemistry</i> , 380(7-8):1029-1033, 1999.
	C50	*Herdewijn, P. et al., "Hexopyranosyl-Like Oligonucleotides," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 80-99. Washington, D.C., American Chemical Society, 1994.
	C51	*Higgins, D.G. et al., "CLUSTAL V: improved software for multiple alignment," <i>CABIOS</i> 8: 189-191, 1992.
	C52	*Hopp, T.P. et al., "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Nat. Biotech.</i> , 6(10): 1204-1210, 1988.
	C53	*Horn, T. et al. "Oligonucleotides with alternating anionic and cationic phosphoramidate linkages: Synthesis and hybridization of stereo-uniform isomers," <i>Tetrahedron Letters</i> , 37(6): 743-746, 1996.
	C54	*Inoue, H. et al., "High efficiency transformation of <i>Escherichia coli</i> with plasmids," <i>Gene</i> , 96(1): 23-28, 1990.
	C55	*Jenkins, G.N. et al., "The biosynthesis of carbocyclic nucleosides," <i>Chem. Soc. Rev.</i> , 24(3): 169-176, 1995.
	C56	*Jeroch, V.H. et al., "Zur Wirksamkeit Mikrobieller Phytase zu Legehennenrationen auf Mais-bzw. Weizenbasis," <i>Die Bodenkultur</i> , 45: 361-368, 1994.
	C57	*Jung, P.M. et al., "Hybridization of Alternating Cationic/Anionic Oligonucleotides to RNA – Segments," <i>Nucleotides and Nucleosides</i> , 13(6 and 7):1597-1605, 1994.
	C58	*Karlin, S. et al., "Applications and statistics for multiple high-scoring segments in molecular sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 90(12): 5873-5877, 1993.
	C59	*Kerovuo, J. et al., "Isolation, Characterization, Molecular Gene Cloning, and Sequencing of a Novel Phytase from <i>Bacillus subtilis</i> ," <i>Appl. Environ. Microbiol.</i> , 64(6): 2079-2085, 1998.
	C60	*Kerovuo, J. et al. "Analysis of myo-inositol hexakisphosphate hydrolysis by <i>Bacillus</i> phytase: indication of a novel reaction mechanism," <i>Biochemical Journal</i> , 352(Pt 3): 623–628, 2000.
	C61	*Kiedrowski, G. et al., "Parabolic Growth of a Self-Replicating Hexadeoxynucleotide Bearing a 3'-5'-Phosphoamidate Linkage," <i>Angewandte Chemie International Edition in English</i> , 30(4):423-426, 1991.
	C62	*Kornegay, E.T. et al., "Response of Broilers to Graded Levels of Microbial Phytase Added to Maize-soyabean-Meal-Based Diets Containing Three Levels of Non-Phytate Phosphorus," <i>British Journal of Nutrition</i> , 75(06): 839-852, 1996.
	C63	*Kostrewa, D. et al., "Crystal structure of phytase from <i>Aspergillus ficuum</i> at 2.5 Å resolution," <i>Nat. Struct. Mol. Biol.</i> 4(3):185-190, 1997.

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	C64	*Lehmann, M. et al., "From DNA sequence to improved functionality: using protein sequence comparisons to rapidly design a thermostable consensus phytase," <i>Protein Eng.</i> , 13(1): 49-57, 2000.
	C65	*Letsinger, R.L. et al., "Effects of pendant groups at phosphorus on binding properties of d-ApA analogues," <i>Nucleic Acids Res.</i> , 14(8): 3487-3499, 1986.
	C66	*Letsinger, R.L. et al., "Phosphoramidate analogs of oligonucleotides," <i>J. Org. Chem.</i> , 35(11):3800-3803, 1970.
	C67	*Letsinger, R.L. et al., "Cationic oligonucleotides," <i>J. Am. Chem. Soc.</i> , 110(13): 4470-4471, 1988.
	C68	*Leung, D.W. et al., "A method for random mutagenesis of a defined DNA segment using a modified polymerase chain reaction," <i>Technique</i> , 1(1): 11-15, 1989.
	C69	*Lim, D. et al., "Crystal structures of Escherichia coli phytase and its complex with phytate," <i>Nat. Struct. Mol. Biol.</i> 7(2):108-113, 2000.
	C70	*Ling, M.M. et al., "Approaches to DNA mutagenesis: an overview," <i>Anal. Biochem.</i> , 254(2): 157-178, 1997.
	C71	*Lutz-Freyermuth, C. et al., "Quantitative determination that one of two potential RNA-binding domains of the A protein component of the U1 small nuclear ribonucleoprotein complex binds with high affinity to stem-loop II of U1 RNA," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 87(16):6393-6397, 1990.
	C72	*Madden, T.L. et al., "Applications of network BLAST server," <i>Meth. Enzymol.</i> , 266:131-41, 1996.
	C73	*Maddry, J.A. et al., "Synthesis of Nonionic Oligonucleotide Analogues," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 40-51, Washington, D.C., American Chemical Society, 1994.
	C74	*Mag, M. et al. "Synthesis and selective cleavage of an oligodeoxynucleotide containing a bridged internucleotide 5'-phosphorothioate linkage," <i>Nucleic Acids Res.</i> , 19(7):1437-1441, 1991.
	C75	*Martin, G.A. et al., "GAP domains responsible for ras p21-dependent inhibition of muscarinic atrial K ⁺ channel currents," <i>Science</i> , 255(5041):192-194, 1992.
	C76	*Meier, C. et al., "Peptide Nucleic Acids(PNAs) - Unusual Properties of Nonionic Oligonucleotide Analogues," <i>Angewandte Chemie International Edition in English</i> , 31(8):1008-1010, 1992.
	C77	*Melnikov, A. et al., "Random mutagenesis by recombinational capture of PCR products in <i>Bacillus subtilis</i> and <i>cinetobacter calcoaceticus</i> ," <i>Nucl. Acids Res.</i> , 27(4):1056-1062, 1999.
	C78	*de Mesmaeker, A. et al., "Comparison of rigid and flexible backbones in antisense oligonucleotides," <i>Bioorganic & Medicinal Chemistry Letters</i> , 4(3): 395-398, 1994.
	C79	*de Mesmaeker, A. et al., "Novel Backbone Replacements for Oligonucleotides," In <i>Carbohydrate Modifications in Antisense Research</i> , edited by Y.S. Sanghvi et al., pp. 24-39, Washington, D.C., American Chemical Society, 1994.
	C80	*Mitchell, D.B. et al., "The phytase subfamily of histidine acid phosphatases: isolation of genes for two novel phytases from the fungi <i>Aspergillus terreus</i> and <i>Myceliophthora thermophila</i> ," <i>Microbiology</i> , 143(1): 245-252, 1997.

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	C81	*Murry, L.E. "Genetic Engineering." In <i>McGraw Hill Yearbook of Science and Technology</i> , pp. 189-196. New York, McGraw Hill, 1992.
	C82	*Myers, R.M. et al., "A general method for saturation mutagenesis of cloned DNA fragments," <i>Science</i> , 229(4710):242-247, July 19, 1985.
	C83	*Needleman, S.B. et al., "A general method applicable to the search for similarities in the amino acid sequence of two proteins," <i>J. Mol. Biol.</i> , 48(3):443-453, 1970.
	C84	*Oakley, B.R. et al., "Cloning, mapping and molecular analysis of the pyrG (orotidine-5'-phosphate decarboxylase) gene of <i>Aspergillus nidulans</i> ," <i>Gene</i> , 61(3): 385-399, 1987.
	C85	*Ostanin, K. et al., "Overexpression, site-directed mutagenesis, and mechanism of <i>Escherichia coli</i> acid phosphatase," <i>J. Biol. Chem.</i> , 267(32):22830-22836, 1992.
	C86	*Ostanin, K. et al., "Asp ³⁰⁴ of <i>Escherichia coli</i> acid phosphatase is involved in leaving group protonation," <i>J. Biol. Chem.</i> , 268(28):20778-20784, 1993.
	C87	*Paborsky, L.R. et al., "Mammalian cell transient expression of tissue factor for the production of antigen," <i>Protein Eng.</i> , 3(6):547-553, 1990.
	C88	*Pandey, A. et al., "Production, purification and properties of microbial phytases," <i>Bioresource Technology</i> , 77(3):203-214, 2001.
	C89	*Pasamontes, L. et al., "Cloning of the phytases from <i>Emmericella nidulans</i> and the thermophilic fungus <i>Talaromyces thermophilus</i> ," <i>Biochim. Biophys. Acta</i> , 1353(3): 217-223, 1997.
	C90	*Pasamontes, L. et al., "Gene cloning, purification, and characterization of a heat-stable phytase from the fungus <i>Aspergillus fumigatus</i> ," <i>Appl. Environ. Microbiol.</i> , 63(5): 1696-1700, 1997.
	C91	*Pauwels, R., "Biological Activity of New 2-5A Analogues," <i>Chemica Scripta</i> , 26: 141-145, 1986.
	C92	*Pearson, W.R. et al., "Improved Tools for Biological Sequence Comparison," <i>Proc. Natl. Acad. Sci. USA</i> , 85(8):2444-2448, 1988.
	C93	*Piddington, C.S. et al., "The cloning and sequencing of the genes encoding phytase (phy) and pH 2.5-optimum acid phosphatase (aph) from <i>Aspergillus niger</i> var. <i>awamori</i> ," <i>Gene</i> , 133(1): 55-62, 1993.
	C94	*Powar, V.K. et al., "Purification and properties of phytate-specific phosphatase from <i>Bacillus subtilis</i> ," <i>J. Bacteriol.</i> 151(3):1102-1108, 1982.
	C95	*Qi, Y. et al., "The pst operon of <i>Bacillus subtilis</i> has a phosphate-regulated promoter and is involved in phosphate transport but not in regulation of the pho regulon," <i>J. Bacteriol.</i> , 179(8): 2534-2539, 1997.
	C96	*Rawls, R. L., "Optimistic about Antisense," <i>Chemical & Engineering News</i> , 75(22): 35-39, 1997.
	C97	*Rodriguez, E. et al., "Cloning, Sequencing, and Expression of an <i>Escherichia coli</i> Acid Phosphatase/Phytase Gene (appA2) Isolated from Pig Colon," <i>Biochemical and Biophysical Research Communications</i> , 257(1):117-123, 1999.
	C98	*Rodriguez, E. et al., "Site-Directed Mutagenesis Improves Catalytic Efficiency and Thermostability of <i>Escherichia coli</i> pH 2.5 Acid Phosphatase/Phytase Expressed in <i>Pichia pastoris</i> ," <i>Archives of Biochemistry and Biophysics</i> , 382(1): 105-112, 2000.

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INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC718-2-US	Serial No.: 10/524,234
First Named Inventor: Blattmann, Beat O. et al.	Examiner: Rebecca E. Prouty
Filing Date: August 11, 2003 (Int'l)	Art Unit: 1652
Page 8 of 9	Date of this Submission: November 20, 2009

Examiner's Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	C99	*Rogers, S.G. et al., "Gene Transfer in Plants: Production of Transformed Plants Using Ti Plasmid Vectors," In <i>Methods for Plant Molecular Biology</i> , edited by A. Weissbach et al., pp. 423-436. New York, Academic Press, 1988.
	C100	*Roland, D.A. et al., "Influence of calcium and environmental temperature on performance of first-cycle (phase 1) commercial leghorns," <i>Poultry Science</i> , 75(1):62-8, 1996.
	C101	*Sanchez, O. et al., "Efficient transformation of <i>Aspergillus nidulans</i> by electroporation of germinated conidia," <i>Fungal Genet. Newsletter</i> , 43:48-51, 1996.
	C102	*Sanger, F. et al., "DNA Sequencing with Chain-Terminating Inhibitors," <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 74(12):5463-5467, 1977.
	C103	*Sawai, H., "Synthesis and properties of oligoadenylic acids containing 2'-5' phosphoramidate linkage," <i>Chemistry Letters</i> , (5):805-808, 1984.
	C104	*Schwartz, R.M. et al., "Matrices for detecting distant relationships," In <i>Atlas of Protein Sequence and Structure</i> , edited by M.O. Dayhoff, 5 supp. 3:pp. 345-352, Silver Spring, MD, National Biomedical Research Foundation, 1978.
	C105	*Shimizu, M., "Purification and Characterization of Phytase from <i>Bacillus subtilis</i> (natto) N-77," <i>Bioscience, Biotechnology, Biochemistry</i> , 56(8):1266-1269, 1992.
	C106	*Simons, P.C.M. et al., "Improvement of Phosphorus Availability by Microbial Phytase in Broilers and Pigs," <i>British Journal of Nutrition</i> , 64(02):525-540, 1990.
	C107	*Skinner, R.H. et al., "Use of the Glu-Glu-Phe C-terminal epitope for rapid purification of the catalytic domain of normal and mutant ras GTPase-activating proteins," <i>J. Biol. Chem.</i> , 266(22):14163-14166, 1991.
	C108	*Smith, T.F. et al., "Comparison of biosequences," <i>Adv. Appl. Math.</i> , 2:482-489, 1981.
	C109	*Sojar, H.T. et al., "A chemical method for the deglycosylation of proteins," <i>Arch. Biochem. Biophys.</i> , 259(1):52-57, 1987.
	C110	*Sprinzl, M. et al., "Enzymatic Incorporation of ATP and CTP Analogues into the 3' End of tRNA," <i>European Journal of Biochemistry</i> , 81(3):579-589, 1977.
	C111	*Stemmer, W.P.C., "Rapid evolution of a protein in vitro by DNA shuffling," <i>Nature</i> , 370(6488):389-391, 1994.
	C112	*Takamatsu, N. et al., "Expression of bacterial chloramphenicol acetyltransferase gene in tobacco plants mediated by TMV-RNA," <i>EMBO J.</i> , 6(2): 307-311, 1987.
	C113	*Thotakura, N.R. et al., "Enzymatic deglycosylation of glycoproteins," <i>Meth. Enzymol.</i> , 138: 350-359, 1987.
	C114	*Timberlake, W.E., "Cloning and Analysis of Fungal Genes," In <i>More Gene Manipulations in Fungi</i> , edited by J.W. Bennett et al., pp. 51-85, San Diego, CA, Academic Press, 1991.
	C115	*Tjalsma, H. et al., "Signal Peptide-Dependent Protein Transport in <i>Bacillus subtilis</i> : a Genome-Based Survey of the Secretome," <i>Microbiol. Mol. Biol. Rev.</i> , 64(3):515-547, 2000.
	C116	*Ullah, A.H.J. et al., "Extracellular Phytase (E. C. 3.1.3.8) from <i>Aspergillus Ficum</i> NRRL - 3135: Purification and Characterization," <i>Preparative Biochemistry</i> , 17(1):63, 1987.

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	C117	*Weber, K.L. et al., "Rapid acquisition of unknown DNA sequence adjacent to a known segment by multiplex restriction site PCR," <i>BioTechniques</i> , 25(3): 415-419, 1998.
	C118	*Weidner, G. et al., "Development of a homologous transformation system for the human pathogenic fungus <i>Aspergillus fumigatus</i> based on the pyrG gene encoding orotidine 5"-monophosphate decarboxylase," <i>Current Genetics</i> , 33(5):378-385, 1998.
	C119	*Winter, J. et al., "The expression of heat shock protein and cognate genes during plant development," <i>Results and Problems in Cell Differentiation</i> , 17:85-105, 1991.
	C120	*Wodzinski, R.J. et al., "Phytase," In <i>Advances in Applied Microbiology</i> , 42:pp. 263-302. http://www.sciencedirect.com/science/article/B7CSY-4S8VDD6-7/2/362d9c0f18191d689512ab68d6232128 , New York: Academic Press, 1996.
	C121	*Wyss, M. et al., "Biochemical Characterization of Fungal Phytases (myo-Inositol Hexakisphosphate Phosphohydrolases): Catalytic Properties," <i>Appl. Environ. Microbiol.</i> , 65(2):367-373, 1999.
	C122	*Yamada, K. et al., "Phytase from <i>Aspergillus terreus</i> ," <i>Agr. Biol. Chem.</i> , 32(10):1275-1282, 1968.
	C123	*PCT International Search Report for PCT/US03/25058, filed August 11, 2003
	C124	*EP Supplementary European Search Report for EP 03 78 5159, filed August 11, 2003

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